

# NEW AND INTERESTING RECORDS OF ADVENTIVE PLANTS FROM THE AUCKLAND INSTITUTE AND MUSEUM HERBARIUM 6

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*Abstract.* This sixth list of some recent additions to the Auckland Institute and Museum Herbarium (AK) and re-examination of earlier gatherings provides new records for some adventive species and further information on the distribution of others.

In addition to material provided as in former years by various collectors, a number of specimens have been obtained by exchange with D.S.I.R., Botany Division, Christchurch (CHR) and the National Museum, Wellington (WELT). In one or two cases, e.g. *Eryngium pandanifolium* cited below, the AK Herbarium has acquired its only gathering and in others gaps noted in my previous papers have been filled in.

The nomenclature adopted in this paper is that published by the New Zealand Weed and Pest Control Society (1969) or that used by the D.S.I.R. staff at Christchurch in the series of checklists published from time to time in the *New Zealand Journal of Botany*. For species not in these works references are given to publications consulted. Specimens are cited by the collector's numbers or in the absence of these by the AK number. Unless otherwise stated the specimens may be regarded as the only material of the species possessed by the Herbarium and, where no previous literature is cited, as first records to the best of my knowledge at the time of writing.

## RANUNCULACEAE

*Aquilegia vulgaris* L.

Wellington, Karori Cemetery, 1978, P.J. Brownsey, AK 149187, (dupl. ex WELT).

Thomson (1922) credited Cheeseman (1883) with the first record, about Auckland, for the columbine; there is, however, a record for Ohariu by Kirk (1878). Smith (1904) listed the species for Ashburton. I have not found any specific localities mentioned since these early publications until recently, although it appears in a number of works as generally distributed in both Islands. Wilson (1978) included it in the flora of Mt. Cook National Park.

*Ranunculus parviflorus* L.

Marlborough Co., Pelorus Valley, J.H. MacMahon, AK 12722, as *R. arvensis* L.

Removal of this gathering from the cover of *R. arvensis* deprives the Herbarium of its hitherto sole representative specimen. The label, in Cheeseman's hand, bears no date but a potential early record for *R. arvensis*, first noted by Armstrong (1880) for Canterbury, is also lost. The species has not often been recorded whereas *R. parviflorus* is well represented by both material and records.

## PAPAVERACEAE

*Papaver rhoeas* L.

Auckland, Remuera, T.F. Cheeseman, AK 92383; Auckland, Devonport Borough Council Yards, 1978, A.E. Wright 2760.

The field poppy has been recorded since Kirk (1870) and its general distribution is in Garnock-Jones (1979). It appears to have occurred widely but not commonly in both Islands. It was still regarded as rare by Matthews (1975). The more recent of the specimens above was "locally abundant on scoria flats in former quarry".

## CRUCIFERAE

*Descurainia sophia* (L.) Prantl

Vincent Co., Sowburn, near Cromwell, D. Petrie, AK 64336, as *Sisymbrium sophia* L.

Petrie, as recorded by Kirk (1899) collected flixweed in Otago and later authors have repeated the records. Allan (1940) gave 1895 as a date, having earlier (Allan 1933) described and illustrated the plant. Matthews (1975) simply stated "very localised" and the distribution in Garnock-Jones (1979) goes no further than "Canterbury, Central Otago". Although the above specimen is not dated it is potentially a voucher for a very early record.

*Lepidium campestre* (L.) R.Br.

Waikato Co., "Alexandra, Waikato, T.F.C.", AK 66757, as *L. hirtum* Sm. = *L. heterophyllum* (DC) Benth.

Cheeseman (1883) published a record for *L. heterophyllum* (under the synonym *L. smithii* Hook.): "pastures near Alexandra". The above specimen, which bears silicles covered with vesicles and short styles, is *L. campestre*, casting some doubt on the validity of the record. Healy (1948) pointed out that the two species were confused and that *L. heterophyllum* must be "regarded as very uncommon to rare", whereas *L. campestre*, according to Garnock-Jones (1979), has a wide distribution, including the Waikato, in both Islands.

## CARYOPHYLLACEAE

*Saponaria officinalis* L.

Inangahua Co., Crusington, c. 3 km east of Reefton, 1977, A.E. Orchard 4967.

A note on the label of this specimen says "adventive shrub 1m tall on roadside". Smith (1904) recorded soapwort for Ashburton and Healy (1969) included it in his list of Canterbury adventives as rare and local on waste ground, originating as a seed impurity. Mr A.E. Esler knows of it in the Auckland area.

## LYTHRACEAE

*Peplis portula* L.

Dunedin, Waitahuna, D. Petrie, AK 73104; Southland Co., 8 miles [12.9 km] N.W. of Riverdale, by Mataura River, gravel pit, wet mud, 1973, R. Mason & E.M. Chapman 12785 (dupl. ex CHR 243610).

Kirk (1899) recorded "Otago, Petrie" for this species and subsequent authors have also referred to "various places in the east of Otago, Petrie", no other collector being mentioned. Unfortunately it is not possible to suggest a date for the Petrie specimen as it is known that he collected in the Dunedin area for some years before and after Kirk's record. The recent gathering sent by D.S.I.R. Christchurch, is a welcome addition to this Herbarium.

## CUCURBITACEAE

*Ecballium elaterium* (L.) A. Richard

Hauraki Plains Co., 5 miles [8 km] from Ngatea township, 1980, P. Kennedy AK 151508, det. Lynne Scott.

This gathering of the squirting cucumber, made by a Noxious Plants Officer who discovered it growing wild on the perimeter of a farm garden, was presented by Mrs Lynne Scott. A description of the species may be found in Tutin (1968).

## EUPHORBIACEAE

*Euphorbia segetalis* L.

Mangonui Co., Tauroa, H. Carse, AK 74851, 74853; Ahipara, Matthews, 1913?, AK 74850, 74852; Ahipara, Wreck Bay, wet cliff, 1979, N.H. Nickerson & R. Cooper 6314 det. C.J. Webb.

These gatherings indicate a long survival of this spurge in the Ahipara area. It was first recorded there by Cheeseman (1914) to whom Allan (1940) referred, giving the date as 1913. In a later publication, however, Thomson (1922) recorded "Tauroa, Matthews and Carse, 1912", thus providing a potential date for the first specimen above. In the intervening years it was collected in 1964, A.H. Watt and 1971, K. Wood.

*Euphorbia serrulata* Thuill

In Bangarter (1976) I recorded a gathering of *E. stricta* L. from Whangarei. Dr C.J. Webb has kindly brought to my notice that the correct name of this species is *E. serrulata* Thuill. He also informed me that the D.S.I.R. Herbarium at Christchurch has good material from Oakura Bay, Northland as well as from Whangarei.

PAPILIONACEAE

*Lotus tenuis* Waldst. & Kit.

Kairanga Co., Palmerston North, Railway Road, roadside drain bank, 1967, A.E. Esler, AK 150607; Waitemata Co., Browns Bay, reserve adjacent to Freyberg Park, 1978, A.E. Wright 2637.

Since my statement in Bangarter (1975) that no specimen of *Lotus tenuis* was in the AK Herbarium the two gatherings above have been kindly presented by the collectors. The species was first recorded by Healy (1957) from Canterbury and later from the same area again by Healy (1969, 1976). Esler (1978) reported its presence "between the airport at Milson and the railway line".

UMBELLIFERAE

*Eryngium pandanifolium* Cham. & Schlecht.

Taranaki, New Plymouth, bank of river, 1978, M.D. Hampton, AK 149993, (dupl. ex CHR 284597) det. C.J. Webb.

This duplicate specimen was kindly presented by D.S.I.R. Botany Division, Christchurch, as a voucher for the new record published by Webb (1978).

COMPOSITAE

*Chondrilla juncea* L.

Auckland, New Lynn, on pavement on street margin, 1979, A.E. Esler, AK 149719.

Presented by Mr Esler as a voucher for the record. The plant is noted as "1m high". The species is described by Sell (1976) and according to the N.Z. Weed & Pest Control Society (1969) was formerly known in New Zealand only as an impurity in imported commercial seed.

*Gazania rigens* R.Br.

Hutt Co., Waikanae, sand-dunes near shore, 1978, P.J. Brownsey, AK 149165. (dupl. ex WELT)

Allan (1940) recorded this species as an occasional escape and Healy (1969) listed it as rare and local in coastal cliff communities in Canterbury.

## BORAGINACEAE

*Cerintho major* L.

Waitemata Co., Milford, roadside, 1978, E.B. Bangerter 5397.

This species has not been recorded before as a garden escape in New Zealand. The identification was confirmed by Mr W.R. Sykes, who is preparing a description for future publication. In the meantime Domac (1972) may be referred to.

## SCOPHULARIACEAE

*Antirrhinum majus* L.

Auckland, Devonport Borough Council Yards, 1978, A.E. Wright 2755, 2756.

Recorded for the first time by Healy (1946) from Napier, the snapdragon was also included in his accounts of adventives on coastal cliffs, Canterbury and Otago (Healy 1959, 1969, 1973). A patch of fifteen flowering plants was noted by Mason (1974) from a Canterbury cemetery. It is known to Mr A.E. Esler in the Auckland area. Of the two gatherings in the AK Herbarium one has crimson flowers and the other white.

## VERBENACEAE

*Verbena bonariensis* var. *conglomerata* Briq.

Hokianga Co., Tahake-Horeke road, 1967, R.C. Cooper, AK 127249; Waitemata Co., Waitakere, Anzac Valley Road, 1978, A.E. Wright 2653; Waitemata Co., Browns, Bay, roadside, 1978, E.B. Bangerter 5373.

These three gatherings answer to the description of a variety of the widespread *V. bonariensis* kindly provided by Mr W.R. Sykes and matched specimens determined by Dr H. Moldenke in the CHR Herbarium. The inflorescence is tightly packed and the corolla tube longer than in type.

## LABIATAE

*Salvia aurea* L.

Coromandel Co., Hahei, 1967, R.C. Cooper, AK 127463.

Sykes (1978) recorded a specimen in the CHR Herbarium collected in 1974 from the Coromandel. The above gathering "naturalised on dunes" constitutes the only other reference to this species in New Zealand that I have found.

## GRAMINEAE

*Digitaria violascens* Link

Waitemata Co., Waitakere Range, Scenic Drive, 1978, R.O. Gardner 1925.

This specimen, presented by Dr Gardner, is noted as growing "in gravelled parking

area". Mrs Lynn Scott kindly informed me that J.M. Dingley collected this grass from the same locality in 1975. A description may be found in Veldkamp (1973).

*Ehrharta erecta* Lam.

Franklin Co., Kariotahi Beach, Waiuku, 1960, P. Hynes, AK 70237, det A.J. Healy; Auckland, Grafton Road, waste ground, 1976, A.E. Wright 1436, det A.E. Esler; Wellington, South Karori Road, garden weed, 1978, P.J. Brownsey, AK 149141. (dupl. ex WELT).

This grass was first recorded by Healy (1944) for Wellington and again mentioned (Healy 1945) among plants for which he was "at a loss to explain their presence". A note with Dr Brownsey's specimen stated "spreading rapidly in recent years". Esler (1978) recorded it from Palmerston North motor camp and he also has it listed for the Auckland area.

*Panicum dichotomiflorum* Michx.

In Bangerter (1976) I noted that the first published record for this grass was by Healy (1946). Mr A.E. Wright has kindly informed me that there is a specimen in the Herbarium of the National Museum (Wellington) collected by D. Petrie from a roadside in Epsom, Auckland, in 1916.

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